

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 1018201777A
Source: JTFW016
Date Processed by STIC: 11/3/06

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/820,777A

DATE: 11/03/2006

TIME: 17:05:49

Input Set : A:\Third Amended Seq Listing 683884-2US.txt
 Output Set: N:\CRF4\11032006\J820777A.raw

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2 <110> APPLICANT: Cheng, Winston T.K.
3     Chen, Chuan-Mu
4     Lin, Shwu-Wha
5     Wang, Chih-Hong
6     Lin, Chih-Jen
7     Wu, Shinn-Chih
9 <120> TITLE OF INVENTION: Method for producing biologically active human factor VIII
10    in the milk of transgenic animals driven by mammary-specific
11    expression cassettes
13 <130> FILE REFERENCE: 683884-2US
15 <140> CURRENT APPLICATION NUMBER: US 10/820,777A
16 <141> CURRENT FILING DATE: 2004-04-09
18 <160> NUMBER OF SEQ ID NOS: 15
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 63
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Synthetic
30 <400> SEQUENCE: 1
31 atgatgtcct ttgtctctct gtcctggta ggcatcctat tccatgccac ccaggctgtt      60
33 aac                               63
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 50
38 <212> TYPE: DNA
39 <213> ORGANISM: Artificial
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Synthetic
44 <400> SEQUENCE: 2
45 atgaaacttc tcatccttac ctgtcttgta gctgttgctg ccaggttaac      50
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 22
50 <212> TYPE: DNA
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 3
54 ggttaactgc caccagaaga ta                                22
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 20
59 <212> TYPE: DNA
60 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 4
63 aagttcttg gttcaatggc                                20

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66 <210> SEQ ID NO: 5
67 <211> LENGTH: 25
68 <212> TYPE: DNA
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 5
72 aagcttgaaa cgccatcaac gggaa 25
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 24
77 <212> TYPE: DNA
78 <213> ORGANISM: Homo sapiens
80 <400> SEQUENCE: 6
81 ctcgagcctc agtagaggc ctgt 24
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 20
86 <212> TYPE: DNA
87 <213> ORGANISM: Homo sapiens
89 <400> SEQUENCE: 7
90 ctctcttgc atcctttcc 20
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 21
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 8
99 ggttacgcgt caagattctg a 21
102 <210> SEQ ID NO: 9
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 9
108 agactttcg aacagaggca 20
111 <210> SEQ ID NO: 10
112 <211> LENGTH: 22
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 10
117 atcttttcc aggtcaacat ca 22
120 <210> SEQ ID NO: 11
121 <211> LENGTH: 23
122 <212> TYPE: DNA
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 11
126 cattctattc attcagtgg aca 23
129 <210> SEQ ID NO: 12
130 <211> LENGTH: 22
131 <212> TYPE: DNA
132 <213> ORGANISM: Homo sapiens
134 <400> SEQUENCE: 12
135 gagatgtaga ggctggagaa ct 22
138 <210> SEQ ID NO: 13

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139 <211> LENGTH: 19
140 <212> TYPE: PRT
141 <213> ORGANISM: Bovine
143 <400> SEQUENCE: 13
144 Met Met Ser Phe Val Ser Leu Leu Leu Val Gly Ile Leu Phe His
145           5             10            15
146 Ala Thr Glu Ala
149 <210> SEQ ID NO: 14
150 <211> LENGTH: 15
151 <212> TYPE: PRT
152 <213> ORGANISM: Bovine
154 <400> SEQUENCE: 14
155 Met Lys Leu Leu Ile Leu Thr Cys Leu Val Ala Val Ala Ala Arg
156           5             10            15
159 <210> SEQ ID NO: 15
160 <211> LENGTH: 1448
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Bovine-Homo sapiens fusion protein
167 <400> SEQUENCE: 15
168 Met Lys Leu Leu Ile Leu Thr Cys Leu Val Ala Val Ala Ala Arg Leu
169           5             10            15
170 Thr Ala Thr Arg Arg Tyr Tyr Leu Gly Ala Val Glu Leu Ser
171           20            25            30
172 Trp Asp Tyr Met Gln Ser Asp Leu Gly Glu Leu Pro Val Asp Ala Arg
173           35            40            45
174 Phe Pro Pro Arg Val Pro Lys Ser Phe Pro Phe Asn Thr Ser Val Val
175           50            55            60
176 Tyr Lys Lys Thr Leu Phe Val Glu Phe Thr Asp His Leu Phe Asn Ile
177           65            70            75
178 Ala Lys Pro Arg Pro Pro Trp Met Gly Leu Leu Gly Pro Thr Ile Gln
179           80            85            90
180 Ala Glu Val Tyr Asp Thr Val Val Ile Thr Leu Lys Asn Met Ala Ser
181 95           100           105           110
182 His Pro Val Ser Leu His Ala Val Gly Val Ser Tyr Trp Lys Ala Ser
183           115           120           125
184 Glu Gly Ala Glu Tyr Asp Asp Gln Thr Ser Gln Arg Glu Lys Glu Asp
185           130           135           140
186 Asp Lys Val Phe Pro Gly Gly Ser His Thr Tyr Val Trp Gln Val Leu
187           145           150           155
188 Lys Glu Asn Gly Pro Met Ala Ser Asp Pro Leu Cys Leu Thr Tyr Ser
189           160           165           170
190 Tyr Leu Ser His Val Asp Leu Val Lys Asp Leu Asn Ser Gly Leu Ile
191 175           180           185           190
192 Gly Ala Leu Leu Val Cys Arg Glu Gly Ser Leu Ala Lys Glu Lys Thr
193           195           200           205
194 Gln Thr Leu His Lys Phe Ile Leu Leu Phe Ala Val Phe Asp Glu Gly
195           210           215           220

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196 Lys Ser Trp His Ser Glu Thr Lys Asn Ser Leu Met Gln Asp Arg Asp
 197 225 230 235
 198 Ala Ala Ser Ala Arg Ala Trp Pro Lys Met His Thr Val Asn Gly Tyr
 199 240 245 250
 200 Val Asn Arg Ser Leu Pro Gly Leu Ile Gly Cys His Arg Lys Ser Val
 201 255 260 265 270
 202 Tyr Trp His Val Ile Gly Met Gly Thr Thr Pro Glu Val His Ser Ile
 203 275 280 285
 204 Phe Leu Glu Gly His Thr Phe Leu Val Arg Asn His Arg Gln Ala Ser
 205 290 295 300
 206 Leu Glu Ile Ser Pro Ile Thr Phe Leu Thr Ala Gln Thr Leu Leu Met
 207 305 310 315
 208 Asp Leu Gly Gln Phe Leu Leu Phe Cys His Ile Ser Ser His Gln His
 209 320 325 330
 210 Asp Gly Met Glu Ala Tyr Val Lys Val Asp Ser Cys Pro Glu Glu Pro
 211 335 340 345 350
 212 Gln Leu Arg Met Lys Asn Asn Glu Glu Ala Glu Asp Tyr Asp Asp Asp
 213 355 360 365
 214 Leu Thr Asp Ser Glu Met Asp Val Val Arg Phe Asp Asp Asp Asn Ser
 215 370 375 380
 216 Pro Ser Phe Ile Gln Ile Arg Ser Val Ala Lys Lys His Pro Lys Thr
 217 385 390 395
 218 Trp Val His Tyr Ile Ala Ala Glu Glu Asp Trp Asp Tyr Ala Pro
 219 400 405 410
 220 Leu Val Leu Ala Pro Asp Asp Arg Ser Tyr Lys Ser Gln Tyr Leu Asn
 221 415 420 425 430
 222 Asn Gly Pro Gln Arg Ile Gly Arg Lys Tyr Lys Lys Val Arg Phe Met
 223 435 440 445
 224 Ala Tyr Thr Asp Glu Thr Phe Lys Thr Arg Glu Ala Ile Gln His Glu
 225 450 455 460
 226 Ser Gly Ile Leu Gly Pro Leu Leu Tyr Gly Glu Val Gly Asp Thr Leu
 227 465 470 475
 228 Leu Ile Ile Phe Lys Asn Gln Ala Ser Arg Pro Tyr Asn Ile Tyr Pro
 229 480 485 490
 230 His Gly Ile Thr Asp Val Arg Pro Leu Tyr Ser Arg Arg Leu Pro Lys
 231 495 500 505 510
 232 Gly Val Lys His Leu Lys Asp Phe Pro Ile Leu Pro Gly Glu Ile Phe
 233 515 520 525
 234 Lys Tyr Lys Trp Thr Val Thr Val Glu Asp Gly Pro Thr Lys Ser Asp
 235 530 535 540
 236 Pro Arg Cys Leu Thr Arg Tyr Tyr Ser Ser Phe Val Asn Met Glu Arg
 237 545 550 555
 238 Asp Leu Ala Ser Gly Leu Ile Gly Pro Leu Leu Ile Cys Tyr Lys Glu
 239 560 565 570
 240 Ser Val Asp Gln Arg Gly Asn Gln Ile Met Ser Asp Lys Arg Asn Val
 241 575 580 585 590
 242 Ile Leu Phe Ser Val Phe Asp Glu Asn Arg Ser Trp Tyr Leu Thr Glu
 243 595 600 605
 244 Asn Ile Gln Arg Phe Leu Pro Asn Pro Ala Gly Val Gln Leu Glu Asp

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245	610	615	620
246	Pro Glu Phe Gln Ala Ser Asn Ile Met His Ser Ile Asn Gly Tyr Val		
247	625	630	635
248	Phe Asp Ser Leu Gln Leu Ser Val Cys Leu His Glu Val Ala Tyr Trp		
249	640	645	650
250	Tyr Ile Leu Ser Ile Gly Ala Gln Thr Asp Phe Leu Ser Val Phe Phe		
251	655	660	665
252	Ser Gly Tyr Thr Phe Lys His Lys Met Val Tyr Glu Asp Thr Leu Thr		
253	675	680	685
254	Leu Phe Pro Phe Ser Gly Glu Thr Val Phe Met Ser Met Glu Asn Pro		
255	690	695	700
256	Gly Leu Trp Ile Leu Gly Cys His Asn Ser Asp Phe Arg Asn Arg Gly		
257	705	710	715
258	Met Thr Ala Leu Leu Lys Val Ser Ser Cys Asp Lys Asn Thr Gly Asp		
259	720	725	730
260	Tyr Tyr Glu Asp Ser Tyr Glu Asp Ile Ser Ala Tyr Leu Leu Ser Lys		
261	735	740	745
262	Asn Asn Ala Ile Glu Pro Arg Ser Leu Lys Arg His Gln Arg Glu Ile		
263	755	760	765
264	Thr Arg Thr Thr Leu Gln Ser Asp Gln Glu Glu Ile Asp Tyr Asp Asp		
265	770	775	780
266	Thr Ile Ser Val Glu Met Lys Lys Glu Asp Phe Asp Ile Tyr Asp Glu		
267	785	790	795
268	Asp Glu Asn Gln Ser Pro Arg Ser Phe Gln Lys Lys Thr Arg His Tyr		
269	800	805	810
270	Phe Ile Ala Ala Val Glu Arg Leu Trp Asp Tyr Gly Met Ser Ser Ser		
271	815	820	825
272	Pro His Val Leu Arg Asn Arg Ala Gln Ser Gly Ser Val Pro Gln Phe		
273	835	840	845
274	Lys Lys Val Val Phe Gln Glu Phe Thr Asp Gly Ser Phe Thr Gln Pro		
275	850	855	860
276	Leu Tyr Arg Gly Glu Leu Asn Glu His Leu Gly Leu Leu Gly Pro Tyr		
277	865	870	875
278	Ile Arg Ala Glu Val Glu Asp Asn Ile Met Val Thr Phe Arg Asn Gln		
279	880	885	890
280	Ala Ser Arg Pro Tyr Ser Phe Tyr Ser Ser Leu Ile Ser Tyr Glu Glu		
281	895	900	905
282	Asp Gln Arg Gln Gly Ala Glu Pro Arg Lys Asn Phe Val Lys Pro Asn		
283	915	920	925
284	Glu Thr Lys Thr Tyr Phe Trp Lys Val Gln His His Met Ala Pro Thr		
285	930	935	940
286	Lys Asp Glu Phe Asp Cys Lys Ala Trp Ala Tyr Phe Ser Asp Val Asp		
287	945	950	955
288	Leu Glu Lys Asp Val His Ser Gly Leu Ile Gly Pro Leu Leu Val Cys		
289	960	965	970
290	His Thr Asn Thr Leu Asn Pro Ala His Gly Arg Gln Val Thr Val Gln		
291	975	980	985
292	Glu Phe Ala Leu Phe Phe Thr Ile Phe Asp Glu Thr Lys Ser Trp Tyr		
293	995	1000	1005

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/03/2006
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,15

VERIFICATION SUMMARY

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